



NORTH DAKOTA STATE DEPARTMENT OF HEALTH
Air Pollution Control Program
State Capitol
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT
FORM AP 301
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING
Calendar Year 1974

1. Name of Firm or Organization: Montana-Dakota Utilities Co.
2. Plant Location: Mandan, North Dakota
3. Permit to Operate Number: 730001
4. Source Unit Number (from Permit to Operate): 1
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>175,907 Tons</u> (Specify Units)	Type <u>NA</u> Quantity per year (Specify Units)
	Delivered Cost of fuel <u>4.4824/Ton</u> (\$/Unit Quantity)	Delivered Cost of fuel (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	8.70 5.44 6.82	
PERCENT SULFUR Max. Min. Avg.	0.98 0.40 0.69	
BTU PER UNIT BTU/lb. Max. Min. Avg.	7170 6880 6992	

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type <u>NA</u>		Type <u>Lignite</u>	Type <u>NA</u>
	Units <u>Tons</u>	Units <u> </u>		Units <u>Tons</u>	Units <u> </u>
Jan.	17,614		July	15,756	
Feb.	15,132		Aug.	14,226	
March	16,320		Sept.	10,277	
April	14,816		Oct.	15,770	
May	9,707		Nov.	15,326	
June	14,046		Dec.	16,917	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type <u>NA</u> Units <u> </u>
Maximum	23.3	
Average	21.9	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 48

Days Per Week 7 Peak Season Jan., Dec.
(Specify Months of Year)

Total Hours Per Year 8042.6 (1974)

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	529	2,127
Sulfur Dioxide	595	2,392
Nitrogen Oxides	Unknown	-
Other (Specify)	-	-

Basis For Quantities Listed Above:

Particulate based on tests run in October 1971.

Sulfur Dioxide based on tests run in August 1972.

No tests have been run for Nitrogen Oxides.

10. Name of Person Submitting Report (Print or Type) Earl F. Backhaus

Title Asst. Manager, Power Production Phone (701) 224-3000

I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.

(Signed)

Earl F. Backhaus Date 1/10/75